

IN THE CLAIMS:

1. (Currently Amended) A storage and retrieval unit (1) for transporting goods (2) from or into a shelf (3) in a commissioning system, the unit comprising:

\_\_\_\_\_ with a vertical mast (4);

and with a longitudinal drive (5) connected to the mast for longitudinal displacement and longitudinal positioning of the ~~storage and retrieval unit~~ vertical mast at a site of operation of the shelf on the shelf front or the shelf rear, ~~wherein~~ ;

\_\_\_\_\_ a height-adjustable goods receiver (7) is provided at the vertical mast, ~~characterized in that the~~ said vertical mast is designed as comprising an articulated mast (4) ~~and has at least one said~~ with a joint (8), which makes possible a deflection (A) of the articulated mast in the direction of longitudinal displacement (L), and ~~that~~ a guide/readjusting device (9) with articulated rods, ~~especially an~~ including an articulated oscillating crank (9'), which returns the articulated mast into the normal position during upon a guided deflection (A) of the articulated mast (4) from the vertical normal position (N), ~~is provided;~~ for stabilization at the deflectable longitudinal end of the articulated mast.

2. (Currently Amended) A storage and retrieval unit in accordance with claim 1, ~~characterized in that~~ wherein the joint (8) is located in the area of the longitudinal drive (5).

3. (Currently Amended) A storage and retrieval unit in accordance with claim 1 ~~or 2~~, ~~characterized in that~~ wherein the longitudinal drive (5) is arranged in the area of an upper or

lower mast end, ~~in particular, wherein~~ the articulated mast (4) is suspended on an upper chassis (12) or is supported at a lower chassis (13).

4. (Currently Amended) A storage and retrieval unit in accordance with ~~one of the claims 1 through 3~~ claim 1, characterized in that wherein the guide/readjusting device (9) has another longitudinal drive (6) in the manner of the longitudinal drive (5), and the two wherein the longitudinal drives (5, 6) are preferably may be operated synchronously.

5. (Currently Amended) A storage and retrieval unit in accordance with claim 4, characterized in that wherein the two longitudinal drives (5, 6) are operated synchronously such that the articulated mast (4) is arranged vertically during the normal operation of a longitudinal displacement of the storage and retrieval unit (1), and that guided deflection (A) of the articulated mast (4) takes place in case of an emergency stop of the storage and retrieval unit.

6. (Currently Amended) A storage and retrieval unit in accordance with ~~one of the claims 1 through 5~~ claim 1, characterized in that wherein the guide/readjusting device (9) comprises an elastic readjusting means.

7. (Currently Amended) A storage and retrieval unit in accordance with ~~one of the claims 1 through 6~~ claim 1, characterized in that wherein the goods receiver (7), which is adjustable in height at the articulated mast (4), and is located in the area of the joint (8) for the

longitudinal displacement (~~±~~) of the storage and retrieval unit to a site of operation of the shelf  
5 on the shelf front or on the shelf rear.

8. (Currently Amended) A storage and retrieval unit in accordance with ~~one of the~~  
~~claims 3 through 7~~ claim 3, ~~characterized in that~~ wherein the upper and/or lower chassis (~~12~~,  
~~13~~) is/are guided in a nontilting manner in rails (~~10~~).

9. (Currently Amended) A storage and retrieval unit in accordance with claim 8,  
~~characterized in that~~ wherein the rails (~~10~~) are integrated parts of the shelf (~~3~~).

10. (Currently Amended) A storage and retrieval unit in accordance with ~~one of the~~  
~~claims 3 through 9~~ claim 3, ~~characterized in that~~ wherein the chassis (~~12 or 13~~) has at least four  
axes with said end-side rollers (~~14~~), which are guided in said rails (~~10~~) in a nontilting manner,  
wherein two axes each are arranged as an axis pair one on top of another and the two axis pairs  
5 are located at horizontally spaced locations from one another at a short distance (d), preferably  
at a distance (d) corresponding to 2 to 3 times the diameter of the roller (~~14~~).

11. (Currently Amended) A storage and retrieval unit in accordance with claim 10,  
~~characterized in that~~ wherein the chassis (~~12 or 13~~) has an electric drive (~~18~~) of its own with  
a friction wheel (17) as a driving wheel, which meshes with one of the rails (~~10~~) in a rolling-  
driving manner.

12. (Currently Amended) A storage and retrieval unit in accordance with ~~one of the claims 1 through 11~~ claim 1, characterized in that wherein the articulated mast (4), especially or the joint (8) of the articulated mast, has a blocking device, which prevents deflection (A) of the articulated mast up to a mast load limit value and permits deflection (A) of the articulated mast (4) when the mast load limit value is exceeded.

13. (Currently Amended) A storage and retrieval unit in accordance with claim 11, ~~characterized in that~~ wherein the mast has a load limit value that can be set.

14. (Currently Amended) A storage and retrieval unit in accordance with claim 12 ~~or 13~~, ~~characterized in that~~ wherein the mast load limit value is a lateral force limit value of the articulated mast (4) or an acceleration/deceleration limit value of the longitudinally displaceable storage and retrieval unit.

15. (Currently Amended) A storage and retrieval unit in accordance with ~~one of the claims 1 through 14~~ claim 1, characterized in that wherein the guide/readjusting device (9) comprises, ~~especially instead of the articulated rods or the oscillating crank~~, a bent guide, ~~especially comprising~~ a sliding guide with lateral sliding blocks at the deflectable end of the articulated mast, which makes possible an exact bent guiding of the deflectable end of the articulated mast during unhindered deflection of the articulated mast along the arc and clearance-free guiding in the transverse direction.

16. (Currently Amended) A method for longitudinally positioning the storage and retrieval unit at a site of operation of the shelf (3) in accordance with one of the claims 1 through 15, ~~characterized in that~~ comprising:

5        operating the longitudinal drive or said longitudinal drives ~~(5, 6)~~ is/are operated such that the articulated mast ~~(4)~~ is arranged vertically during normal operation of a longitudinal displacement of the storage and retrieval unit (1); ~~and that~~ providing guided deflection ~~(A)~~ of the articulated mast ~~(4)~~ and guided ~~returning takes place~~ return of the articulated mast in case of an emergency stop of the storage and retrieval unit.

17. (Currently Amended) A method for longitudinally positioning the storage and retrieval unit at a site of operation of the shelf (3) ~~in accordance with one of the claims 1 through 4 and 6 through 14,~~ characterized in that , the method comprising the steps of:

5        providing a vertical mast as an articulated mast with a joint allowing a deflection of the articulated mast in the direction of longitudinal displacement and a guide/readjusting device with articulated rods and/or an articulated oscillating crank, which returns the articulated mast into the normal position upon a guided deflection of the articulated mast from the vertical normal position for stabilization at the deflectable longitudinal end of the articulated mast;

10        providing a longitudinal drive connected to the mast for longitudinal displacement and longitudinal positioning of the vertical mast at a site of operation of the shelf on the shelf front or the shelf rear;

providing a height-adjustable goods receiver;

displacing the storage and retrieval unit (1) ~~is displaced~~ linearly in the longitudinal direction (~~L~~) of the shelf from a resting starting position of the shelf (~~3~~) in an accelerated manner to a selected site of operation of the shelf and in a decelerated manner before the site of operation is reached in such a way that the articulated mast (~~4~~) is deflected in a guided manner during at least part of the accelerated and/or decelerated motion and is again returned in a guided manner into the aligned vertical normal position at least during stoppage of the storage and retrieval unit.